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10	BRS	L10	1	(functional adj characteristic) and (web adj design)
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13	BRS	L13	1	(functional adj characteristic) same (Internet) same test$3
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16	BRS	L16	0	((functional adj characteristic) same test$3) and (test near (Internet or Intranet or web))
17	BRS	L17	2	"6631408".pn.
18	BRS	L18	4438	709/223.ccls.
19	BRS	L19	20	709/223.ccls. and (functional adj characteristics)
20	BRS	L20	18	709/224.ccls. and (functional adj characteristics)

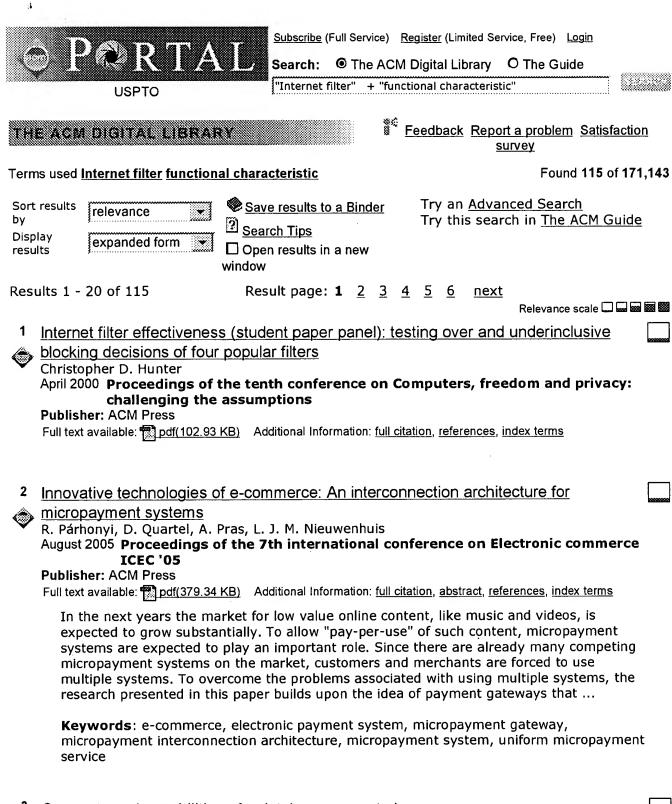|	DBs	Time Stamp	Comments	Error Definition
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4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/02/28 10:04		
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19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/02/28 10:33		
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1 Data traffic in a new centralized switch node architecture for LAN
Ehab A. Khalil, M. Khalid, H. B. Kekre
January 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: 🔲 pdf(1.23 MB)   Additional Information: full citation, abstract, index terms

A new switch-node architecture for data traffic for integrated services in a Local Area Network (LAN) is proposed. Specifically it has been designed to provide service to the following two broad types of traffic:1. Connectionless service for Interactive Data (ID) traffic.2. Connection-oriented service for Non-Interactive Data (NID) traffic.The topology of the switch-node is a bus. The key feature of the proposed scheme is the **centralization**, which has been exploited to provide the requisi ...

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1　Internet filter effectiveness (student paper panel): testing over and underinclusive blocking decisions of four popular filters　☐

◆　Christopher D. Hunter

April 2000　**Proceedings of the tenth conference on Computers, freedom and privacy: challenging the assumptions**

Publisher: ACM Press

Full text available: 🔲 pdf(102.93 KB)　Additional Information: full citation, references, index terms

2　Innovative technologies of e-commerce: An interconnection architecture for micropayment systems　☐

◆　R. Párhonyi, D. Quartel, A. Pras, L. J. M. Nieuwenhuis

August 2005　**Proceedings of the 7th international conference on Electronic commerce ICEC '05**

Publisher: ACM Press

Full text available: 🔲 pdf(379.34 KB)　Additional Information: full citation, abstract, references, index terms

In the next years the market for low value online content, like music and videos, is expected to grow substantially. To allow "pay-per-use" of such content, micropayment systems are expected to play an important role. Since there are already many competing micropayment systems on the market, customers and merchants are forced to use multiple systems. To overcome the problems associated with using multiple systems, the research presented in this paper builds upon the idea of payment gateways that ...

Keywords: e-commerce, electronic payment system, micropayment gateway, micropayment interconnection architecture, micropayment system, uniform micropayment service

3　Concepts and capabilities of a database computer\　☐

◆　Jayanta Banerjee, David K. Hsiao, Richard I. Baum

December 1978　**ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available: 🔲 pdf(2.79 MB)　Additional Information: full citation, abstract, references, citings, index terms

The concepts and capabilities of a database computer (DBC) are given in this paper. The

proposed design overcomes many of the traditional problems of database system software and is one of the first to describe a complete data-secure computer capable of handling large databases. This paper begins by characterizing the major problems facing today's database system designers. These problems are intrinsically related to the nature of conventional hardware and can only be solved by i ...

Keywords: clustering, content-addressable memory, database computers, keywords, mass memory, performance, security, structure memory

4   Using SoDIS™ as a risk analysis process: a teaching perspective
Don Gotterbarn, Tony Clear
January 2004 **Proceedings of the sixth conference on Australian computing education - Volume 30 CRPIT '04**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(617.90 KB)   Additional Information: full citation, abstract, references

There are several difficulties we face when showing our students key processes and techniques for software development. In this paper, issues related to teaching students how to manage risks in software projects are profiled. The concepts and process for implementing Software Development Impact Statements (SoDIS) are outlined; with its supporting CASE tool the "SoDIS Project Auditor" being described. Different ways of applying the SoDIS process and the CASE tool are demonstrated, through some br ...

5   From UML to LQN by XML algebra-based model transformations
Gordon P. Gu, Dorina C. Petriu
July 2005 **Proceedings of the 5th international workshop on Software and performance WOSP '05**
Publisher: ACM Press
Full text available: pdf(231.43 KB)   Additional Information: full citation, abstract, references, index terms

The change of focus from code to models promoted by OMG's Model Driven Development raises the need for verification of non-functional characteristics of UML models. such as performance, reliability, scalability, security, etc. Many modeling formalisms, techniques and tools have been developed over the years for the analysis of different non-functional characteristics. The challenge is not to reinvent new analysis methods for UML models, but to bridge the gap between UML-based software developmen ...

Keywords: LQN, UML, XMI, XML, automatic model building, model transformations, performance profile, software performance engineering

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Louise H. Jones, Kenneth Carvin, Janet Hauser, Paul Herrmann, Frank Pehrson, Harold Reksten, Patricia Van Name
September 1972 **Conference record of the 5th annual workshop on Microprogramming**
Publisher: ACM Press
Full text available: pdf(873.04 KB)   Additional Information: full citation, references

7   Contemporary Concepts of Microprogramming and Emulation
Robert F. Rosin
December 1969 **ACM Computing Surveys (CSUR),** Volume 1 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(1.40 MB)   Additional Information: full citation, references, citings, index terms

**8   Maintenance and evolution: Automating the performance management of
     component-based enterprise systems through the use of redundancy**
     Ada Diaconescu, John Murphy
     November 2005 **Proceedings of the 20th IEEE/ACM international Conference on
                      Automated software engineering ASE '05**
     Publisher: ACM Press
     Full text available: 📄 pdf(941.43 KB)   Additional Information: full citation, abstract, references, index terms

     Component technologies are increasingly being used for building enterprise systems, as
     they can address complex functionality and flexibility problems and reduce development
     and maintenance costs. Nonetheless, current component technologies provide little
     support for predicting and controlling the emerging performance of software systems that
     are assembled from distinct components.This paper presents a framework for automating
     the performance management of complex, component-based systems. The a ...

     Keywords: J2EE, autonomic management, decision policies

9   Documentation design based upon intuitive feature taxonomy and use logging
     Hal Berghel, David Roach
     September 1990 **ACM SIGDOC Asterisk Journal of Computer Documentation ,
                      Proceedings of the 8th annual international conference on Systems
                      documentation SIGDOC '90**, Volume 14 Issue 4
     Publisher: ACM Press

     Full text available: 📄 pdf(584.72 KB)   Additional Information: full citation, abstract, references, citings, index
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     'command card' or 'keyboard template' provided ...

10 The use and disuse of APL: An empirical study
     Raymond Kanner
     July 1982 **ACM SIGAPL APL Quote Quad , Proceedings of the international
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     Publisher: ACM Press

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**11 Industry/government track papers: Learning to detect malicious executables in the
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     Jeremy Z. Kolter, Marcus A. Maloof
     August 2004 **Proceedings of the tenth ACM SIGKDD international conference on**

Knowledge discovery and data mining KDD '04
Publisher: ACM Press
Full text available: pdf(216.52 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper, we describe the development of a fielded application for detecting malicious executables in the wild. We gathered 1971 benign and 1651 malicious executables and encoded each as a training example using n-grams of byte codes as features. Such processing resulted in more than 255 million distinct n-grams. After selecting the most relevant n-grams for prediction, we evaluated a variety of inductive methods, including naive Bayes, decision trees, support vector machines, and boosting. ...

Keywords: concept learning, data mining, malicious software, security

12   <u>A novel method for protein subcellular localization based on boosting and probabilistic neural network</u>
Jian Guo, Yuanlie Lin, Zhirong Sun
January 2004 **Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29 CRPIT '04**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(106.36 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Subcellular localization is a key functional characteristic of proteins. An automatic, reliable and efficient prediction system for protein subcellular localization is needed for large-scale genome analysis. In this paper, we introduce a novel subcellular prediction method combining boosting algorithm with probabilistic neural network algorithm. This new approach provided superior prediction performance compared with existing methods. The total prediction accuracy on Reinhardt and Hubbard's data ...

Keywords: amino acid composition, boosting, probabilistic neural network, subcellular localization

13   <u>Embedded systems: applications, solutions and techniques (EMBS): Assessing the effect of failure severity, coincident failures and usage-profiles on the reliability of embedded control systems</u>
Frederick T. Sheldon, Kshamta Jerath
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(327.91 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

The increasingly ubiquitous use of embedded systems to manage and control our technologically (ever-increasing) complex lives makes us more vulnerable than ever before. Knowing how reliable such systems are is absolutely necessary especially for safety, mission and infrastructure critical applications. This paper presents a structured compositional modeling method for assessing reliability based on characteristic data and stochastic models. We illustrate this using a classic embedded control sys ...

Keywords: design, measurement, performance, reliability

14   <u>Towards an engineering approach to software design</u>
John R. White, Taylor L. Booth
October 1976 **Proceedings of the 2nd international conference on Software engineering**
Publisher: IEEE Computer Society Press

Full text available: pdf(995.67 KB)   Additional Information: full citation, abstract, references, citings, index terms

The software design process is discussed from an engineering point of view. Initially, a distinction is made between software design and program design. Software design is then described in terms of evolving a system architecture independently of implementation considerations. Computation structures are introduced as a means of modeling the dynamic behavior of a software architecture. Functional completeness, quality, machine independence, and performance completeness of a design are then u ...

Keywords: Computation structures, Data abstraction, Performance modeling, Software design, Software engineering

15 Display oriented computer usage system
Harold S. Corbin, Werner L. Frank
January 1966 **Proceedings of the 1966 21st national conference**
Publisher: ACM Press
Full text available: pdf(648.34 KB)   Additional Information: full citation, abstract, references, index terms

The history of data processing has shown the development of general purpose packages in support of data processing hardware. Thus, we have seen the evolution of assemblers, compilers, service routines, and I/O routines. These software packages have led us to operating systems, job monitors, and data manipulation packages in support of batch processing operations. The advent of user-oriented terminal devices and conversation modes of on-line operation, be it time sharing or direct ...

16 A display console for an experimental computer-based augmented library catalog
Donald R Haring
January 1968 **Proceedings of the 1968 23rd ACM national conference**
Publisher: ACM Press
Full text available: pdf(884.93 KB)   Additional Information: full citation, abstract, references, index terms

Project Intrex (information transfer experiments) is a program of research and experimentation directed toward the functional design of new library services that might become operational at the Massachusetts Institute of Technology and elsewhere in the decade beginning in 1970.1,2 At M.I.T., as with many other institutions having extensive library services and a large research community, it has become increasingly evident that such new library services will be based on ...

17 Wargame-based training systems
L. Robert Ogus, James R. Jancaitis, Russel E. Hauck
December 1981 **Proceedings of the 13th conference on Winter simulation - Volume 2**
Publisher: IEEE Press
Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references, index terms

This paper introduces a candidate model for development of wargame-based training systems and describes the application of that concept during development of the Naval Tactical Game (NAVTAG) Training System. A wargame-based training system combines the inherent educational advantages of simulation and gaming with the best features of more formal or conventional methods of instruction. Research indicates that gaming simulation has the potential to afford significant advantages over conventio ...

18 Some realities of data administration
Beverly K. Kahn
October 1983 **Communications of the ACM**, Volume 26 Issue 10

Publisher: ACM Press

Full text available: pdf(625.37 KB)   Additional Information: full citation, abstract, references, citings, index terms

Little information exists on the practice of data administration, i.e., the management of data as an enterprise resource. A survey of data administrators at predominantly large enterprises was conducted to determine the extent of the existence of data administration and to assess its effectiveness as implemented. New insight into the realities of data administration, including its real-world objectives and perceived effectiveness, is presented.

Keywords: data administration, data administration function effectiveness, database administration, information resource management

19 Standardization for ATM and related B-ISDN technologies

David Cypher, Shukri Wakid
September 1993 **StandardView**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(876.56 KB)   Additional Information: full citation, references, index terms, review

20 Algorithm 804: subroutines for the computation of Mathieu functions of integer orders

Fayez A. Alhargan
September 2000 **ACM Transactions on Mathematical Software (TOMS)**, Volume 26 Issue 3

Publisher: ACM Press

Full text available: pdf(87.19 KB)   Additional Information: full citation, abstract, references, index terms

Computer subroutines in C++ for computing Mathieu functions of integer orders are described. The routines can handle a large range of the order n and the parameter h. Sample test results and graphs are given.

Keywords: Hill's determinant, Mathieu characteristic determinant, Mathieu characteristic numbers, Mathieu coefficients, Mathieu differential equation, Mathieu functions, elliptic coordinates, wave equation

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1 Innovative technologies of e-commerce: An interconnection architecture for micropayment systems
R. Párhonyi, D. Quartel, A. Pras, L. J. M. Nieuwenhuis
August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**
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Keywords: clustering, content-addressable memory, database computers, keywords, mass memory, performance, security, structure memory

3 <u>Cut and paste based text summarization</u>

Hongyan Jing, Kathleen R. McKeown

April 2000 **Proceedings of the first conference on North American chapter of the Association for Computational Linguistics**

Publisher: Morgan Kaufmann Publishers Inc.

Full text available: <u>pdf(764.73 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

> We present a cut and paste based text summarizer, which uses operations derived from an analysis of human written abstracts. The summarizer edits extracted sentences, using reduction to remove inessential phrases and combination to merge resulting phrases together as coherent sentences. Our work includes a statistically based sentence decomposition program that identifies where the phrases of a summary originate in the original document, producing an aligned corpus of summaries and articles whic ...

4 <u>Sentence reduction for automatic text summarization</u>

Hongyan Jing

April 2000 **Proceedings of the sixth conference on Applied natural language processing**

Publisher: Morgan Kaufmann Publishers Inc.

Full text available: <u>pdf(598.34 KB)</u>
<u>Publisher Site</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

> We present a novel sentence reduction system for automatically removing extraneous phrases from sentences that are extracted from a document for summarization purpose. The system uses multiple sources of knowledge to decide which phrases in an extracted sentence can be removed, including syntactic knowledge, context information, and statistics computed from a corpus which consists of examples written by human professionals. Reduction can significantly improve the conciseness of automatic summari ...

5 <u>From UML to LQN by XML algebra-based model transformations</u>

Gordon P. Gu, Dorina C. Petriu

July 2005 **Proceedings of the 5th international workshop on Software and performance WOSP '05**

Publisher: ACM Press

Full text available: <u>pdf(231.43 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

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Louise H. Jones, Kenneth Carvin, Janet Hauser, Paul Herrmann, Frank Pehrson, Harold Reksten, Patricia Van Name

September 1972 **Conference record of the 5th annual workshop on Microprogramming**

Publisher: ACM Press

Full text available: <u>pdf(873.04 KB)</u>   Additional Information: <u>full citation</u>, <u>references</u>

7 Contemporary Concepts of Microprogramming and Emulation

Robert F. Rosin

December 1969 **ACM Computing Surveys (CSUR)**, Volume 1 Issue 4

Publisher: ACM Press

Full text available: pdf(1.40 MB)   Additional Information: full citation, references, citings, index terms

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8 Maintenance and evolution: Automating the performance management of component-based enterprise systems through the use of redundancy

Ada Diaconescu, John Murphy

November 2005 **Proceedings of the 20th IEEE/ACM international Conference on Automated software engineering ASE '05**

Publisher: ACM Press

Full text available: pdf(941.43 KB)   Additional Information: full citation, abstract, references, index terms

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Keywords: J2EE, autonomic management, decision policies

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9 Documentation design based upon intuitive feature taxonomy and use logging

Hal Berghel, David Roach

September 1990 **ACM SIGDOC Asterisk Journal of Computer Documentation , Proceedings of the 8th annual international conference on Systems documentation SIGDOC '90**, Volume 14 Issue 4

Publisher: ACM Press

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10 The use and disuse of APL: An empirical study

Raymond Kanner

July 1982 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL APL '82**, Volume 13 Issue 1

Publisher: ACM Press

Full text available: pdf(480.59 KB)   Additional Information: full citation, abstract, references, citings, index terms

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11 Industry/government track papers: Learning to detect malicious executables in the wild

Jeremy Z. Kolter, Marcus A. Maloof

August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**

Publisher: ACM Press

Full text available: pdf(216.52 KB)   Additional Information: full citation, abstract, references, index terms

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> **Keywords:** concept learning, data mining, malicious software, security

12 A novel method for protein subcellular localization based on boosting and probabilistic neural network

Jian Guo, Yuanlie Lin, Zhirong Sun

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13 Embedded systems: applications, solutions and techniques (EMBS): Assessing the effect of failure severity, coincident failures and usage-profiles on the reliability of embedded control systems

Frederick T. Sheldon, Kshamta Jerath

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

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> The increasingly ubiquitous use of embedded systems to manage and control our technologically (ever-increasing) complex lives makes us more vulnerable than ever before. Knowing how reliable such systems are is absolutely necessary especially for safety, mission and infrastructure critical applications. This paper presents a structured compositional modeling method for assessing reliability based on characteristic data and stochastic models. We illustrate this using a classic embedded control sys ...

> **Keywords:** design, measurement, performance, reliability

14 Towards an engineering approach to software design

John R. White, Taylor L. Booth

October 1976 **Proceedings of the 2nd international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available: pdf(995.67 KB)   Additional Information: full citation, abstract, references, citings, index terms

The software design process is discussed from an engineering point of view. Initially, a distinction is made between software design and program design. Software design is then described in terms of evolving a system architecture independently of implementation considerations. Computation structures are introduced as a means of modeling the dynamic behavior of a software architecture. Functional completeness, quality, machine independence, and performance completeness of a design are then u ...

Keywords: Computation structures, Data abstraction, Performance modeling, Software design, Software engineering

15 Display oriented computer usage system

Harold S. Corbin, Werner L. Frank

January 1966 **Proceedings of the 1966 21st national conference**

Publisher: ACM Press

Full text available: pdf(648.34 KB)   Additional Information: full citation, abstract, references, index terms

The history of data processing has shown the development of general purpose packages in support of data processing hardware. Thus, we have seen the evolution of assemblers, compilers, service routines, and I/O routines. These software packages have led us to operating systems, job monitors, and data manipulation packages in support of batch processing operations. The advent of user-oriented terminal devices and conversation modes of on-line operation, be it time sharing or direct ...

16 A display console for an experimental computer-based augmented library catalog

Donald R Haring

January 1968 **Proceedings of the 1968 23rd ACM national conference**

Publisher: ACM Press

Full text available: pdf(884.93 KB)   Additional Information: full citation, abstract, references, index terms

Project Intrex (information transfer experiments) is a program of research and experimentation directed toward the functional design of new library services that might become operational at the Massachusetts Institute of Technology and elsewhere in the decade beginning in 1970.1,2 At M.I.T., as with many other institutions having extensive library services and a large research community, it has become increasingly evident that such new library services will be based on ...

17 Wargame-based training systems

L. Robert Ogus, James R. Jancaitis, Russel E. Hauck

December 1981 **Proceedings of the 13th conference on Winter simulation - Volume 2**

Publisher: IEEE Press

Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references, index terms

This paper introduces a candidate model for development of wargame-based training systems and describes the application of that concept during development of the Naval Tactical Game (NAVTAG) Training System. A wargame-based training system combines the inherent educational advantages of simulation and gaming with the best features of more formal or conventional methods of instruction. Research indicates that gaming simulation has the potential to afford significant advantages over conventio ...

18 Some realities of data administration

Beverly K. Kahn

October 1983 **Communications of the ACM**, Volume 26 Issue 10

Publisher: ACM Press

Full text available: pdf(625.37 KB)   Additional Information: full citation, abstract, references, citings, index terms

Little information exists on the practice of data administration, i.e., the management of data as an enterprise resource. A survey of data administrators at predominantly large enterprises was conducted to determine the extent of the existence of data administration and to assess its effectiveness as implemented. New insight into the realities of data administration, including its real-world objectives and perceived effectiveness, is presented.

Keywords: data administration, data administration function effectiveness, database administration, information resource management

19 Standardization for ATM and related B-ISDN technologies

David Cypher, Shukri Wakid

September 1993 **StandardView**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(876.56 KB)   Additional Information: full citation, references, index terms, review

20 Algorithm 804: subroutines for the computation of Mathieu functions of integer orders

Fayez A. Alhargan

September 2000 **ACM Transactions on Mathematical Software (TOMS)**, Volume 26 Issue 3

Publisher: ACM Press

Full text available: pdf(87.19 KB)   Additional Information: full citation, abstract, references, index terms

Computer subroutines in C++ for computing Mathieu functions of integer orders are described. The routines can handle a large range of the order n and the parameter h. Sample test results and graphs are given.

Keywords: Hill's determinant, Mathieu characteristic determinant, Mathieu characteristic numbers, Mathieu coefficients, Mathieu differential equation, Mathieu functions, elliptic coordinates, wave equation

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